Á conjecture about the existence of an analogous grid cell structure delimiting human behavior.

In 2005 ;It was shown by May Britt & Edvard Moser that when a person navigates a spatial environment,a grid-like region activates in the brain ,this region encodes geographical position in a 2 dimensional Grid .

In experiments by Pavlov, known as Pavlov experiment ,a behavior is programmed in a dog and the animal is conditioned to react by salivation to a (minimal) acoustic trigger of an anticipation of a meat meal ,when the experiment is successful,an imaginary meat meal belief is installed in the dog's mind : we say that the dog has been conditioned.

Of course, salivation as a reaction to imaginary meat is not the only thing that can be programmed ,in fact other fixed beliefs can also be installed ,these belong only to the dog's owner imagination .

For instance ,the dog can be conditioned to stay in a fixed perimeter against electrical charges if trespassing of a physical fence occurs ,this is also conditioning .

In this case, the conditioning is linked to deep „Fight-or-Flight responses" inside the brain or to a cyclical rush of feel-good hormones , the dog will not move outside the perimeter if the conditioning is successful, this means that even without the prospect of physical harm of an electrical fence or even probably with the total absence of a fence the dog will only be

limited to a small portion of his environment .The two experiments can be done simultaneously .

The dog can be conditioned to a spatially limited environment,which he identifies as stable at the same time Grid cells would activate only part of the total grid structure.

In the same way that Pavlovian conditioning induces the animal to be restricted to a given spatial perimeter and to a delimitation of grid cells activations,it is conjectured that inside the human brain a similar „Behavioral Perimeter“ would activate through this analogous grid cell structure. which would be rooted on previous lifetime conditionning patterns.

This would be also observable in a multi-individual group setting where a hierarchy of those supposed grid structures would interact with each other and define a super-structure limiting the scope of the groups set of behaviors and beliefs.

These neuro-behavioral signatures would range from micro-expressions such as body posture, gait and to other traits of the individual: personal belief systems,tolerance to contradictory ideas and psychological zones of comfort as one may call them (These are certainly more advanced objects)

Similarly to our imaginary walls in the Pavlovian Experiment this supposed grid structure would activate in a predictable manner and encode the information about the individual cognitive boundaries .

This echoes with a citation by the famous mathematician Alexander Grothendieck „on how humans are delimited to a

fixed universe ,the one they grew up in,which limits and boundaries are definitely set once and for all,how this universe or house was built and other questioning about its intrinsic properties the furniture,its mental gadgets is a question they would hardly be able to probe .

The subject is surely fascinating and needs more investigation.

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